

## AMENDMENTS TO THE CLAIMS

Please amend the claims as indicated below. The language being added is underlined (“   ”) and the language being deleted contains a strikethrough (“”).

### LISTING OF CLAIMS

1. (Currently Amended) A Digital Subscriber Line (DSL) communications system configured to provide a power spectral density (PSD) mask for spectral shaping of a dual bit map (DBM) mode downstream transmission, the PSD mask represented by an equation:

$$PSD_{DBMsOL} = K_{ADSL\_OL} \times \frac{C}{f_0} \times \frac{\left[ \sin\left(\pi \frac{f}{f_0}\right) \right]^2}{\left( \pi \frac{f}{f_0} \right)^2} \times \frac{1}{1 + \left( \frac{f}{f_{LP3dB}} \right)^{12}} \times \frac{1}{1 + \left( \frac{f_{HP3dB}}{f} \right)^6}, \quad 0 < f < \infty$$

where  $PSD_{DBMsOL}$  represents the PSD mask,  $K_{ADSL\_OL}$  represents a constant value,  $C$  represents a constant value,  $f$  represents a frequency of the downstream transmission,  $f_0$  represents a constant value,  $f_{LP3dB}$  represents a 3 decibel (dB) low pass frequency and  $f_{HP3dB}$  represents a 3 dB high pass frequency.

2. (Original) The PSD mask as in Claim 1, wherein  $K_{ADSL\_OL}$  has a value between 0.0900 watts and 0.1200 watts.

3. (Original) The PSD mask as in Claim 2, wherein  $K_{ADSL\_OL}$  has a value of 0.1104 watts.
4. (Original) The PSD mask as in Claim 1, wherein  $f_0$  has a value between 2.100 megahertz and 2.300 megahertz.
5. (Currently Amended) The PSD mask as in Claim ~~[[1]]~~4, wherein  $f_0$  has a value of 2.208 megahertz.
6. (Original) The PSD mask as in Claim 1,  $f_{LP3dB}$  has a value substantially equal to  $\frac{f_0}{2}$ .
7. (Original) The PSD mask as in Claim 1, wherein  $f_{HP3dB}$  has a value between 100 kilohertz and 150 kilohertz.
8. (Currently Amended) The PSD mask as in Claim ~~[[1]]~~7, wherein  $f_{HP3dB}$  has a value of 130 kilohertz.
9. (Original) The PSD mask as in Claim 1, wherein  $C$  has a value between 0.1 and 10.

10. (Currently Amended) The PSD mask as in Claim ~~[[7]]~~9, wherein C has a value of 2.

11. (Original) The PSD mask as in Claim 10, wherein  $f_{HP3dB}$  has a value of 130 kilohertz.

12. (Original) The PSD mask as in Claim 11,  $f_{LP3dB}$  has a value substantially equal to  $\frac{f_0}{2}$ .

13. (Original) The PSD mask as in Claim 12, wherein  $K_{ADSL\_OL}$  has a value of 0.1104 watts.

14. (Original) The PSD mask as in Claim 13, wherein  $f_0$  has a value of 2.208 megahertz.

15. (Currently Amended) A Digital Subscriber Line (DSL) communications system configured to provide a power spectral density (PSD) mask for spectral shaping of a far end cross talk (FEXT) bit map (FBM) mode downstream transmission, the PSD mask represented by an equation:

$$PSD_{FBMsOL} = K_{ADSL\_OL} \times \frac{C}{f_0} \times \frac{\left[ \sin\left(\pi \frac{f}{f_0}\right) \right]^2}{\left(\pi \frac{f}{f_0}\right)^2} \times \frac{1}{1 + \left(\frac{f}{f_{LP3dB}}\right)^{12}} \times \frac{1}{1 + \left(\frac{f_{HP3dB}}{f}\right)^8}, \quad 0 < f < \infty$$

where  $PSD_{FBMsOL}$  represents the PSD mask,  $K_{ADSL\_OL}$  represents a constant value,  $C$  represents a constant value,  $f$  represents a frequency of the downstream transmission,  $f_0$  represents a constant value,  $f_{LP3dB}$  represents a 3 decibel (dB) low pass frequency and  $f_{HP3dB}$  represents a 3 dB high pass frequency.

16. (Original) The PSD mask as in Claim 15, wherein  $K_{ADSL\_OL}$  has a value between 0.0900 watts and 0.1200 watts.

17. (Original) The PSD mask as in Claim 16, wherein  $K_{ADSL\_OL}$  has a value of 0.1104 watts.

18. (Original) The PSD mask as in Claim 15, wherein  $f_0$  has a value between 2.100 megahertz and 2.300 megahertz.

19. (Currently Amended) The PSD mask as in Claim ~~[[15]]~~18, wherein  $f_0$  has a value of 2.208 megahertz.

20. (Original) The PSD mask as in Claim 15,  $f_{LP3dB}$  has a value substantially equal to  $\frac{f_0}{2}$ .

21. (Original) The PSD mask as in Claim 15, wherein  $f_{HP3dB}$  has a value between 27 kilohertz and 40 kilohertz.

22. (Currently Amended) The PSD mask as in Claim ~~[[15]]~~21, wherein  $f_{HP3dB}$  has a value of 32 kilohertz.

23. (Original) The PSD mask as in Claim 15, wherein  $C$  has a value between 0.1 and 10.

24. (Original) The PSD mask as in Claim 23, wherein  $C$  has a value of 2.

25. (Original) The PSD mask as in Claim 24, wherein  $f_{HP3dB}$  has a value of 32 kilohertz.

26. (Original) The PSD mask as in Claim 25,  $f_{LP3dB}$  has a value substantially equal to  $\frac{f_0}{2}$ .

27. (Original) The PSD mask as in Claim 26, wherein  $K_{ADSL\_OL}$  has a value of 0.1104 watts.

28. (Original) The PSD mask as in Claim 27, wherein  $f_0$  has a value of 2.208 megahertz.